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CIA-RDP86-00513R001653720014-2

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CIA-RDP86-00513R001653720014-2

HALAMAJ, Wlodyslaw, mgr inz.; SUCIODOLSKI, Zbigniew, mgr inz.;
SZWAJGER, Wladzimierz, inz.

Squealers and rocks in the Nowa Ruda mine. Wiadom gorn 13
no.3:91-96 Mr '62.

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CIA-RDP86-00513R001653720014-2

SUCHODOLSKI, Zbigniew, mgr., inz.

Geological structure and the raw material wealth in the Sudety
trough. Przegl. gorn. 13 no.1:25-29 '62.

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720014-2"

SUCHODOLSKI, Zbigniew, mgr., inz.

Influence of the distance of the stowing from the logwall face
on the behavior of carbon dioxide in seams. Przegl gorn 18 no.3:
172-176 '62.

SUCHCDOLSKI, Zbigniew, mgr inz.

Characteristics of the geological structure of the Walbrzych
coal region. Przegl gorn 18 no.7/8-383-391 Jl-Ag '62.

TARNOWSKI, J., dr. inz.; SUCHODOLSKI, Zbigniew, mgr. inz.; OSMEDA,
Josef, mgr. inz.; HALAMAJ, Wladyslaw, mgr. inz.; CYBULSKI,
Waclaw, prof. dr. inz.;

Discussion concerning J. Tarnowski's paper on "Method of
investigating the degree of danger caused by ejections of coal
and squealers as well as the behavior of gas around underground
workings. Przegl gorn 19 no.5:233-236 Maj '63.

1. Kopalnia Doswiadczalna Barbara, Glowny Instytut Gornictwa
(for Cybulski)

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720014-2

SUCHODOLSKI, Zbigniew, mgr inz.

Modification of the working system of coal seams under medium
hazard of carbon dioxide and rock outbursts. Glow inst gorn prace
no.352/360:197-215 '64.

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720014-2"

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and Their Application - Leather. Fur. Gelatin. Tanning Agents. Technical Proteins. II.

Abs Jour : Ref Zhur - Khimiya, No 9, 1958, 31200
Author : Suchomel, A. and Mazanek, M.
Inst :
Title : Raw Materials for the Production of Synthetic Hairy Sole Leather For Leisure Footwear.
Orig Pub : Kozarstvi, 6, No 11, 193-194, 1956.
Abstract : The following materials are required for the production of the type of leather indicated above: a fibrous raw material, a plasticizer, stabilisers, impregnants, vulcanizing agents, and coagulating agents. The fibrous raw material consists of a mixture of ground chrome tanned (2 parts) and vegetable tanned (1 part) leather waste. An aqueous mixed emulsion of bitumen and mineral wax, cumarone resins, or paraffin.

Card 1/2

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653720014-2" CZECHOSLOVAKIA/Chemical Technology - Chemical Products and Their Application - Leather. Fur. Gelatin. Tanning Agents. Technical Proteins. II

Abs Jour : Ref Zhur - Khimiya, No 9, 1958, 31200

'Svit' grade chloroprene latex emulsions are used as the impregnating material (particle size 0.5-1 μ); after coagulation this type of rubber shows good physicomechanical properties though it is somewhat less abrasion-resistant than thermoplastic polymers. The stabilizers used are condensation products of dioxydiphenylsulfone with sulfite liquors. For the vulcanization 50% suspensions of CaO, MgO, or ZnO are used. The coagulating agents used consist of transparent [TN: clear ?] (i.e., purified from impurities) solutions of $Al_2(SO_4)_3$,

Card 2/2

26.2120

26012
Z/036/60/000/004/001/001
A205/A126

AUTHORS: Vystyd, Miloš, Vodsedálek, Josef, and Suchomel, Dráhomír

TITLE: Cast high-temperature alloys for gas turbine blades

PERIODICAL: Slévárenství, no. 4, 1960, 111 - 114

TEXT: The author lists advantages and disadvantages of cast and wrought alloy gas turbine blades, describes high-temperature alloys used in foreign states and compares them with the "Poldi AKNC" alloy produced in the ČSR. He describes the investment casting method employed by the První brněnská strojírna (Mechanical Engineering Plant) in Brno. In cooperation with the "První brněnská strojírna, závod K. Gottwalda" in Brno, the "SVÚME - Státní výzkumný ústav materiálů a technologie" (State Research Institute for Materials and Technology) in Prague, conducted creep strength, fatigue strength, physical property and heat-impact resistance tests on "Poldi AKNC-L" alloy. The test rods were centrifugally cast into flange nests on "Poldi AKNC-L" alloy. The alloy was tested after 2 different heat treatments: normal treatment (solution annealing at 1,080°C/4 hrs/air hardening at 700°C/16 hrs/air) and gradual treatment (solution annealing at 1,200°C/4 hrs/air, intermittent annealing at 1,000°C/16 hrs/air, and hardening at 700°C/16 hrs/air).

Card 1/3

26102

Z/036/60/000/004/001/001

A205/A126

Cast high-temperature alloys for gas turbine blades

year), gradual heat treatment caused separation of Cr₃C₂ on boundary grains which proved very disadvantageous. "Poldi AKNC-L" alloy castings showed better creep strength than "Nimonic" alloy castings, and "AKNC-L" castings with normal heat treatment have properties similar to "Nimonic 80A" wrought alloy, while properties of "AKNC-L" castings with gradual heat treatment resemble those of "Nimonic 90" wrought alloy. Fatigue tests were made at 20, 650 and 700°C comparatively on an hf and a "Senenk" pulsator and produced same results. The fatigue limit at 20°C is approximately 10 kg/mm² lower than that of a wrought part but increases with increasing temperature. However, the fatigue limit decreases considerably under tensile stress and is already 16.5% lower at a prestress of 5 kg/mm². The amplitude and size of cracks, originating after repeated heating and water-shower quenching of wedge-shaped samples, was measured on an apparatus, developed for this purpose by the SVJM. Test results indicate that the "AKNC-L" cast alloy produces somewhat worse results, especially at lower temperatures. The "První brněnská strojírna" introduced centrifugal investment casting of radial turbine impellers and axial compressor rims both used in superchargers. The impeller wheels are 80 - 130 mm in diameter, weigh 0.20 - 1.45 kg, have 10 - 17 blades and operate at 650°C with 45,000 rpm. The bladed rims are 152 - 420 mm in diameter, weigh 0.6 - 8.5 kg, have

Card 2/3

SUCHOMEL, Drahomir

Casting of turbine blades and blade rings by the lost-wax process. Zpravodaj VZLU no.2:81-84 '63.

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720014-2

VYSTYD, Milos, inz., Sec.; SUCHOMEL, Drahomir

Vacuum casting of turbine blades. Zpravodaj VZLU no.2:
85-90 '63.

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720014-2"

VYSTYD, M.; SUCHOMEL, D.

Fusion and casting of refractory alloys in vacuum. Energoflks CA
13 no.9:500 S '63.

VYSTYD, Milos; SUCHOMEL, Drahomir, NOVOTNA, Jindra

Precision casting of alloys on the NiCr basis in vacum.
Slevarenstvi ll no.ll:457-463 N°63.

1. Statni vyzkumnny ustav materialy a technologie, Praha
(for Vystyd). 2. Prvni brnenska strojirma (for Suchomel
and Novotna).

SUCHOMEL, Frantisek; NAVRATIL, inz.; SLADEK; CERNY; CHVATAL, dr.; LIDICKY, Frantisek, inz.

Cooperation of the Ministry of Fuel and Power with people's committees in managing the power resources. Energetika Cz 11 no.8:Suppl.:Energetika 11 no.8:1-6 '61.

1. Ministerstvo paliv a energetiky (for Suchomel and Lidicky)

I 46622-66 EMP(t)/ETI IJP(c) JD
ACC NR: AP6026069

SOURCE CODE: CZ/0034/65/000/012/0866/0872

AUTHOR: Vondrasek, Vaclav (Docent; Engineer); Suchomel, Frantisek (Engineer)

ORG: VSB, Ostrava; Metallurgical Projects, Prague (Hutni projekt)

9

B

TITLE: Contribution to the problems in tin coating

SOURCE: Hutnické listy, no. 12, 1965, 866-872

TOPIC TAGS: metal coating, tin, electroplating, sheet metal, metallurgic process, industrial management

ABSTRACT: Coatings obtained by electroplating are compared to hot dip coatings. FeSn₂ interlayer on an electrically coated sheet is formed only during the short period of reheating and is thinner than the one formed in the hot dip process. This improves the mechanical properties of the tinned sheet. At the same time the tin layer is thinner and thereby the process is more economical. The only disadvantage of the electroplating process is its higher power consumption. The electroplated tinned sheets show also a higher corrosion-resistance than the hot dipped sheets. Orig. art. has: 18 figures and 2 tables. [Based on authors' Eng. abst.]
[JPRS: 34,272]

SUB CODE: 11, 13, / SUBM DATE: none / ORIG REF: 002 / SOV REF: 001
OTH REF: 002

Card 1/1 afs

UDC: 669.65.68

09/6

1000

SUCHOMEL, Jiri, inz.; HAVEL, Frantisek, inz.; STRNADOVA, Zdenka

Use of mathematical methods in the economy of the dairy
industry. Prum potravin 14 no.2:57-61 F '63.

1. Vyzkumny ustav mlekaensky, Praha.

SUCHOMEL, Jiri, inz.; HAVEL, Frantisek, inz.

Use of mathematical methods in reducing the transportation
costs in the dairy industry. Prum potravin 14 no.11:564-
567 N'63.

1. Vyzkumny ustav mlekarensky, Praha.

SUCHOMEL, Jiri, inz.; PRUCHA, Antonin

Effect of technological development on the qualification of
dairy industry workers. Prum potravin č. nro. 4:195-197 Ap '65.

1. Dairy Research Institute, Prague. Submitted August 6, 1964.

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Approved for release
under the Freedom of Information Act

U.S. Office of Equipment for sand wire hardening. November 12
1964. 323-3.5 pg '64

State Research Institute of Material and Technology, Department
of Building, Brno.

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CIA-RDP86-00513R001653720014-2"

PROCHAZKA, Karel, Doc., MUDr.; SUCHOMEL, Karel, MUDr.

Gumma of the lungs. Cesk. derm. 30 no.3:166-171 June 55.

1. Z plicni kliniky (prednosta prof. Dr. J. Jedlicka) a z I.
dermatovenerologicke kliniky (prednosta prof. Dr. K. Gawalowski)
v Praze.

(SYPHILIS, complications
lungs gumma, clin. aspects.)

(LUNGS, diseases
gumma caused by syphilis, clin. aspects.)

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CIA-RDP86-00513R001653720014-2

KOUCALOVÁ, E.; KALVĀTOVÁ, O.

"Ecologic Variability of the Groundling (Gobio Gobi. (Linnaeus) 1758)",
P. 1, (VÝSTAVK, Vol. 17, No. 1, 1953, Praha, Czech.)

SO: Monthly List of East European Accessions, (EEL), LC, Vol. 4, No. 3,
Mar 1955, Uncl.

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CIA-RDP86-00513R001653720014-2"

SUCHON, Kazimierz

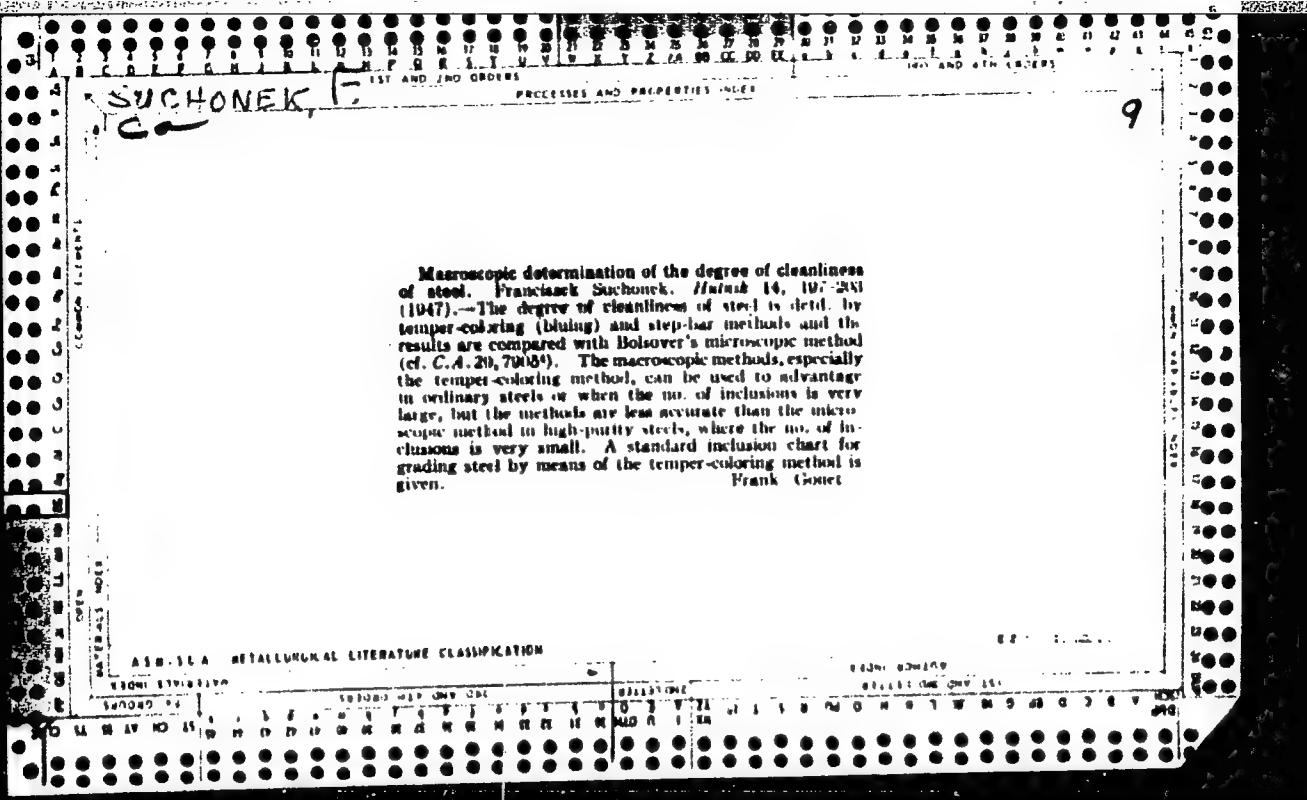
Heating stoves with multicharge hearths. Prototypy proj hut
maszyn 12 no. 2:45-49 F '64.

i. Biprophut, Gliwice.

SYC, Stefan; SUCHON, Waclaw

On the problem of toxic activity of azotox in man with a description
of 4 cases. Polski tygod.lek. 15 no.24:909-913 13 Je '60.

1. Z Oddzialu Chorob Wewnetrznych A; ordynator: dr med. Stefan Syc
Szpitala Wojewodzkiego w Opolu; dyrektor dr Borys Glazer; doradca
naukowy dr med. Jan Jodlowski, specjalista wojewodzki w zakresie
chorob wewnetrznych
(DDT toxicol)



"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720014-2

SUCHOMALEK, B.

"Building up Grooves and Edges by Welding" p. 10, (HUTNIK, Vol. 3, no. 1, Jan. 1953, Praha, Czechoslovakia).

SO: Monthly List of East European Accessions, LC, Vol. 2, No. 11, Nov. 1953, Uncl.

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720014-2"

SUCHOPA, Jan, inz.

Experience of a scraper plow crew at the Dul ceskoslovensky pionyr mine in the Ostrava-Karvina coalfield. Uhli 5 no.ll: 375-377 N '63.

1. Dul ceskoslovensky pionyr, Petrvald.

Suchoparek, R.

Inserting dies. p. 286. HUTNIK. (Ministerstvo hutniho prumyslu
a rudnych dolu) Praha. Vol. 4, no. 9, Sept. 1954.

Source: EEAL LC Vol. 5, No. 10 Oct. 1956

SUCHOPAREK, R.

Selection of Steel for dyes. p. 79.
HUTNIK. (Ministerstvo hutniho prumyslu a rudnych dolu) Praha.
Vol. 5, No. 3, Mar. 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress,
Vol. 4, No. 12, December 1955.

SUCHOPAREK, R.

Etching die-forged steel to test the grain of material. p. 248.
Thread rolling on thread millers. p. 250. HUTNIK. (Ministerstvo
hutniho prumyslu a rudnych dolu) Praha. Vol. 5, No. 8, August 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress,
Vol. 4, No. 12, December 1955.

SUCHOPAREK, R.

SUCHOPAREK, R. Wearing of dies. p. 217.

Vol. 6, no. 7, July 1956

HUTNIK

TECHNOLOGY

Czechoslovakia

So: East European Accession, Vol. 6, No. 7, May 1957

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720014-2

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CIA-RDP86-00513R001653720014-2"

SUCHOPAREK, Rudolf

Making the short forgings by upsetting on horizontal forging machines. Stroj vyr 10 no.7:362 '62.

L 17515-63

EWP(k)/EWP(q)/BDS AFFTC/LSD Pf-4 JD/HN

ACCESSION NR: AP3001440

Z/0034/63/000/006/0454/0454

60

AUTHOR: Suhoparek, R.

TITLE: Method of manufacturing seamless thin and thick-walled pipes and other similar hollow objects of various cross sections and sizes, from steel, nonferrous metals and alloys, by cold or hot pressing.

SOURCE: Hutnické listy, no. 6, 1963, 454

TOPIC TAGS: seamless pipe, pressing, extrusion apparatus, pipe manufacture

ABSTRACT: The article is a review of Czech patent application FV 3124-62. The invention describes an apparatus for the extrusion of pipes from solid metal bars. The bar requires a small short hole at midpoint, into which the shaping rod is inserted. The rod stretches across the press chamber and is fixed in the opposite side of the chamber. The material is heated to a suitable temperature before it is introduced into the press. The material is then compressed around the shaping rod either perpendicularly to the direction of the exerted pressure or at an angle to this direction. In this way the hollows of the part are formed. The invention claims saving in the metal required, better shapes, lower formation temperatures

Card 1/2

L 17515-63

ACCESSION NR: AP3001440

with lower stressing of the presses and higher production. Orig. art. has 1 figure.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 08Jul63

ENCL: 00

SUB CODE: ML, MD

NO REF SOV: 000

OTHER: 000

Card 2/2

SUCHOPAREK, Rudolf

Trucks for handling large forging and other heavy objects.
Stroj vyr 11 no. 52258 My '63.

SUCHOPAREK, Rudolf

"Forging" by F. Drastik. Reviewed by Rudolf Suchoparek.
Stroj vyr 11 no.5:269 My '63.

SUCHOPAREK, Rudolf

Pressing hollow cylinders with shaped surface. Stroj
vyr 11 no. 12: 626-627 '63.

SUCHOPAREK, Rudolf

Swinging stand for the forging of hollow forgings on a mandrel.
Stroj vyr 12 no.6:428 Je '64.

FOLWARCZNY, Czeslaw, mgr inz.; SOBOTKOWSKI, Witold, mgr inz.; SUCHORAB,
Antoni, inz.

Reliability and safety testing of thermal installations in
power stations. Pt.1. Energetyka Pol 18 no.3:Supplement:
Energopomiar 10 no.2:14-16 Mr'64

1. Pion Cieplny, Zaklad Badan i Pomiarow, Warszawa.

FOLWARCZNY, Czeslaw, mgr inz.; SOBOTKOWSKI, Witold, mgr inz.;
SUCHORAB, Antoni, inz.

Methods of performing acceptance tests of thermal equipment in
power plants. Pt. 2. Energetyka Pol 18 no. 1 [i.e.5]: Suppl. Biul
nauk techn energopomiar 10 no. 3-17-23 My '64.

SUCHORONCZAK, Jan

Production concentration as a basis of labor efficiency increase
in mining. Wiadom gorn 12 no.7/8:217-222 Jl-Ag '61.

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SUCHORONCZAK, Jan, mgr.

The contest gave good results. Wiadom. o. n 13 no. 5:170-171 My 62.

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CIA-RDP86-00513R001653720014-2"

ZHURAVKIN, S. I., LIKHVIN, G. N., KALASHNIKOV, V. V., MIRFICOV, R. A., and
S. V. TIKHONOV, et al.

"Time of flight measurement of the total neutron cross-section of
Boron - 10, Uranium - 233, Uranium - 235 and Plutonium - 239," a paper presented
at the Atom for Peace Conference, Geneva, Switzerland, 1955

GAJEWSKI, W.; SUCHORZEWSKA, J.; VOTRUBA, M.F.; ZAKRZEWSKI, J.

The production of light mesonic hyperfragments and Li^8 fragments
from the interactions of K^- mesons of 1.3 and 1.5 GeV/c momenta.
Acta physica Pol 27 no.2:329-334 F '65.

1. Institute of Experimental Physics of the Warsaw University
and Institute of Nuclear Research, Warsaw (for Gajewski),
Suchorzewska, Zakrzewski). 2. Institute of Physics of the
Czechoslovak Academy of Sciences, Prague (for Votruba). Submitted
June 18, 1964.

SUCHORZEWSKI, Stanislaw

The maritime law enters the atomic era. Tech gosp morska 10 no.3:
70-71 '60. (EEAI 9:6)

1. Izba Morska, Gdynia.
(Maritime law) (Atomic ships)

SUCHORZEWSKI, S., adwokat (Gdynia)

A convention on the transportation of passengers by sea, Brussels 1961.
Tech gosp morska 11 no.11:333-335 '61.

SUCHORZEWSKI, Stanislaw, adwokat (Gdynia)

Characteristics of a contract of carriage. Techn gosp morska
12 no.2:42-43 '62.

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720014-2

SUCHORZEWSKI, Stanislaw, mgr. (Sopot)

Vishby rules. Tech gosp morska 13 no.9±266-268 S'63

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CIA-RDP86-00513R001653720014-2

SUCHODOLSKY, Stanislaw, attorney (Sopot)

due diligence of the ferr ran and seaworthiness of the vessel.
Tech gosp morska 14 no. 5:138-140 My '64.

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CIA-RDP86-00513R001653720014-2"

SUCHY RZ. WSHI, W.

SUCHOLEWSKI, W. First bridge in Warsaw. p. 437.

Vol. 76, No. 12, Dec. 1955

PRACZAL TECHNICZNY

TECHNICAL

Warszawa, Poland

See: East European Accession, Vol. 5, No. 5, May 1956

SUCHOWIAK, E.

We produce basic power engineering installations. p.11

PRZEGŁAD TECHNICZNY. (Naczelna Organizacja Techniczna) Warszawa, Poland.
Vol.80, no.16, Apr. 1959

Monthly List of East European Accessions Index (EEAI) LC, Vol.8, no.6, June 1959
Uncl.

SUCHOV, L.V.
SA

776.3

1973. The removal of the background of tracks of charged particles in photographic emulsions by means of accelerated fading. G. E. BLOVNIKOV AND L. V. SUCHOV. Dokl. Akad. Nauk, SSSR, 21 (No. 2) 243 (1973) 26 Russian.

Reports briefly an investigation showing that storage in a humid atmosphere quickly removes the latent images produced by the passage of protons and α -particles through a photographic emulsion. After drying, the plates were shown to have returned to normal sensitivity.

E. P. GEORGE

A 77

ASA-11A METALLURGICAL LITERATURE CLASSIFICATION

Kharchenko, V. A., and S. Ye., and G. M. L. A.

"The fission of Uranium nuclei under the effect of slow negative Pions, fast neutrons, and Gamma Rays with energies of up to 250 MeV," Zhur. eksper. i teor. fiz., 29, pp 537-550, 1955

Translation 61921, page 27.

SICHOVIAK, S.,mgr inz.

The machine industry intends to cover Poland's needs
of equipment for the chemical industry. Przegl techn
S5 no. 16:4 19 Ap '64

1. Dyrektor Zjednoczenia Przemyslu Budowy Urzadzen
Chemicznych.

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CIA-RDP86-00513R001653720014-2

BISKUPSKI, E.; POMYZ, L.; OKOLEWSKI, R.; KUSZKIEWICZ, M.; SZWALIK, F.;
SUCHOZEBSKA, E.

Radiological examination of the femoral heads using the bone plate
method. Chir.narz.ruchu ortop.polska 24 no.6:517-523 '59.

1. Z Kliniki Ortopedycznej AM w Gdansku. Kierownik: doc. dr A.Senger.
(FEMUR HEAD radiogr.)

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CIA-RDP86-00513R001653720014-2"

OKONIEWSKI, R.; HUSZKIEWICZ, W.; SZWALUK, F.; BISKUPSKI, E.; WEZOŁKOWA, T.;
POMTYCH, L.; SUCHOWIĘRSKA, E.

Localization of the field of fatty degeneration of the bone marrow
in the upper segment of the femur in aged subjects. Chir.narz.ruchu
ortop.polska 24 no.6:525-528 '59.

1. Z Kliniki Ortopedycznej AM w Gdansku. Kierownik: doc.dr A.Senger
i z Zakladu Anatomii Patologicznej AM w Gdansku. Kierownik: prof.
dr W. Czarnocki.

(BONE MARROW pathol.)
(FEMUR pathol.)

PORTYCH, I.; OKONIEWSKI, R.; RUSZKIEWICZ, W.; POZNIAK, Z.; SUCHCZEBSKA, E.;
BISKUPSKI, E.

Healing of experimental false joints. Chir. narz. ruchu ortop. polska
26 no.6:665-672 '61.

1. z Kliniki Ortopedycznej AM w Gdansku Kierownik doc. dr A. Senger.
(PSEUDARTHROSIS exper)

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CIA-RDP86-00513R001653720014-2

POZNIAK, Z.; POMTYCH, L.; OKONIEWSKI, R.; RUSZKIEWICZ, W.; SUJECZERSKA, E.

Comparative histological and radiological studies on calluses during
the course of fracture healing with special reference to false joints.
Chir. narz. ruchu ortop. polska 26 no.6:673-685 '61.

1. Z Kliniki Ortopedycznej AM w Gdansku Kierownik: doc. dr A.Senger.
(FRACTURES) (PSEUDARTHROSIS)

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CIA-RDP86-00513R001653720014-2"

FORTYCH, Leszek; COKNIENSKI, Roman; RUSZEKIEWICZ, Wiktor; SUCHOLEWSKA, Ewa;
GLASKOWSKA, Ewa;

Further experimental studies on healing of pseudarthrosis.
Chir. narzad. ruchu ortop. Pol. 29 no.2: 287-292 '64.

1. z Kliniki Ortopedycznej Akademii Medycznej w Gdansku
(Kierownik: doc. dr. med. A. Serger).

SUBCHICOVA, T.N.

Changes in the hypophysis and adrenal cortex under the influence
of ACTH. Nauch. trudy Riaz. med. inst. 15:134-136 '62.
(MIRA 17:5)

1. Kafedra patologicheskoy anatomi (zav. kafedroy - prof.
V.F.Beletskii, nauchnyy rukovoditel' - I.I.Mironov) Ryazanskogo
meditsinskogo instituta imeni Pavlova.

SUCHY, Dezso, dr.; KIRALY, Istvan, dr.

Accident prevention in the collective farms in Szolnok county.
Nepegeszsegugy 44 no.7:204-208 J1 '63.

1. Kozlemeny a Szolnok megyei SaTK Alkozonttel.
(ACCIDENT PREVENTION)
(AGRICULTURAL WORKERS DISEASES)
(ACCIDENTS, INDUSTRIAL)

RUMANIA

ANDRONESCU, M., MD; ARESTEANU, L., MD; BULIGESCU, L., MD; COLIȚA, D., MD;
DEMIRIAN, N., MD; IONESCU, Genoveva, MD; IONIȚA, C., MD; MARINESCU,
N., MD; MOLDOVAN, T., MD; PAUNESCU, C., Lecturer; SEROPIAN, E., MD;
STIGLET, C., MD; SUCIU, D., MD; VASILESCU, G., MD.

Medical Clinic of the "Carol Davila" Hospital" (Clinica medicala
a Spitalului "Carol Davila") - (for all)

Bucharest, Vîata Medicală, No 3, 1 Feb 64, pp 167-181

"Data Concerning Dispensary Supervision and Treatment of Epidemic
Hepatitis in a Section of the town of Bucharest."

(14)

SUCHY, S.

SUCHY, S. AND A. WIECZORKIEWICZ

"A Case of Parathyroid Tetany in a Six Week Old Infant." (Clinic for Diagnosis of Children's Diseases and Clinic for Pediatric Endocrinics of the Medical Academy in Warsaw).

SO: "Ped. Polski", Vol. 13 (1953), No. 10, pp. 1022-1025.

SUCHY, E.; SAPINSKI, W.; FRACKIEWICZ, T.

Preventive application of chloromycetin in whooping cough in nurseries. Pediat. polska 29 no.5:533-537 May 54.

1. Z Kliniki Propedeutyki Pediatrii Akademii Medycznej w Warszawie,
Kierownik: prof. dr med. W.Szenajch i z Kliniki Chorob Zakaznych
Wiek Dziecięcego Akademii Medycznej, Kierownik: prof. dr med.
J.Bogdanowicz.

(WHOOPING COUGH, prevention and control,
chloramphenicol)

(CHLORAMPHENICOL,
prev. of whooping cough)

SUCHY, E; SZYMANSKA, J; SAPINSKI, W; SROCZYNsKA, J.

Diphtheria carriers in nursery infants. Pediat.polska 30 no.4:
374-376 Apr '55.

1. Z Kliniki Propedeutyki Pediatri A.M. w Warszawie, Kierownik:
prof. dr med. W. Szenajch. Z Kliniki Chorob Zakaznych Wieku Dzie-
ciecego A.M. w Warszawie Kierownik: prof. dr med. J. Bogdanowicz.
i ze Stacji Sanitarno-Epidemiologicznej w W-wie Kierownik: dr med.
J. Jakobkiewicz. Warszawa, Dzialdowska 1/3.

(DIPHTHERIA, transmission
carriers in nursery inf.)

RACZKA, Eugeniusz, mgr., inz.; SUCHY, Henryk

Photometric method of indicating tin (Sn) in zinc metal. Rudy i metale
6 no.6:274-277 Je '61.

TIHELKOVA, D.; CHMELAR, J.; BORSKY, I.; SUCHY, J.

General evaluation of tested machines with special regard to physiology,
hygiene and work safety. Pracovni lek. 13 no.7:348-353 S '61.

1. Ustav hygieny prace a chorob z povolani, Praha, reditel prof. dr.
J. Teisinger Ustav hygieny prace a chorob z povolani, Bratislava,
riaditeľ MUDr. I Klucik Statni zkusebni stanice zemedelskych stroju,
Praha-Repy, prednosta inz. J. Dvorak.

(AGRICULTURE) (INDUSTRIAL MEDICINE)
(HUMAN ENGINEERING)

SUCHY, J.; ADAM, M.; PERTLIK, L.

Intensification of the smoking process. p. 3⁰⁹

PRUMYSL POTRAVINY. (Ministerstvo potravinarskeho prumyslu) Praha,
Czechoslovakia, Vol. 10, no. 8, Aug. 1959

Monthly List of East European Acquisitions (EEAI), LC. Vol. 9, no. 2,
Feb. 1960

Uncl.

SUCHY, J. (Mar. Lazne, Odboraru 45)

Tonsillectomy & adenoidectomy in a hemophiliac. Cesk. otolar. 8 no.3:
173-176 June 59.

1. OUNZ Marianske Lazne.

(HEMOPHILIA

adenotonsillectomy in a hemophiliac (Cz))

(TONSILECTOMY

in a hemophiliac (Cz))

(ADENOIDS, surg.

adenotonsillectomy in a hemophiliac (Cz))

CHLOROFORMATE

1963, L. ZAHORECKY, G. CEMUSKOVY, L. MELKAN and C. HODAKOVY "Some
aspects of the Isomerization of Strophantidin in Injectables Solutions."

"Isomerization of Strophantidine-Type Cardenolids in Injectable Solutions,
Part I. UV-Spectrometry of Strophantidin Isomerization Reaction Kinetics."

Práce v Československé Farmacie, Vol 12, No 2, Feb 63; pg 107-111.

Abstract (English summary modified): At alkaline pH, isomerization is
specifically catalyzed by OH ions. Rate shows times required to
cause 10% decomposition of 10% of strophantidin at pH 8, 9 or 10
and 1, 15, 20, 25, 100 and 120° centigrade. Four tables, 3 graphs,
equations: 1 Sovjet, 1 Czech, 6 Western references.

- 33 -

Anatomy

CZECHOSLOVAKIA

UDC 616-071.3-053.2(h.37)

FETTER, V.; SUNEY, J.; PROKOPEC, M.; Complex of the Stations for Anthropometric Research of the Total State Territory (Komplex Pracovist Celostatniho Anthropolometrickeho Vyzkumu), State Plan Coordinator (Koordinator ve Statnim Planu) Prof Dr F. BLAZEK.

"New Anthropological Standards of the Development of the Youth in Czechoslovakia."

Prague, Casopis Lekaru Ceskych, Vol 105, No 48, 2 Dec 66, pp 1323 - 1324.

Abstract: Anthropological results obtained in a survey in 1961 are reported. The survey includes height, body weight, head circumference, and chest circumference. The use of the tables is discussed. 7 Czech references. (Manuscript received May 66).

1/1

SUCHY, J.

Suchy, J.

ZOO-213 reaper. p. 232.

Vol. 5, no. 12, June 1955
MECHANISACE ZEMEDILSTVI

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4, No. 9,
Sept. 1955, Uncl.

Suchy, J.

AGRICULTURE

The TB 26 potato sorter. p. 158

Vol. 3, no. 7, July 1958

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, No. 4, April 1959

Suchy, J.

AGRICULTURE

SOP-300 tractor, rake and tedder, p. 18.

Vol. 9, no. 1, Jan. 1959

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, No. 4, April 1959

89315

Z/039/61/022/002/006/008
E192/E382

64000 (also 1041)

AUTHOR: Suchý, Jan

TITLE: The Use of Very-high-frequency Radio Communications
for Controlling Long-distance Traffic

PERIODICAL: Slaboproudý obzor, 1961, Vol. 22, No. 2,
pp. 89 - 93

TEXT: Various methods of using mobile radio stations operating at very high frequencies for controlling long-distance traffic are discussed. A mobile station is situated in a vehicle and it must be constantly in touch with the dispatcher or controller, independently of its position along the route. Narrow-band frequency modulation with a carrier wave in the vicinity of 150 Mc/s is usually employed for this purpose. The choice of this frequency determines operating conditions in that it restricts the wave propagation to the visible range and results in the screening and reflection from various natural obstacles - large buildings, etc. Consequently, in order to cover long distances the system of fixed stations is arranged in such a manner that the

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The Use of

communication or transmission range of one overlaps the other. In this way, the whole route is adequately covered. However, continuous operation of such a system results in the appearance of considerable distortion at the receiver, where the fields of the neighbouring stations overlap. This system is therefore inadequate and it was necessary to find other solutions. It is possible to provide the neighbouring transmitter stations with different frequencies. This will eliminate the interference but the system has serious disadvantages in that the receiver has to be switched to the right frequency at the right time. However, this deficiency can be overcome if the receiver is switched automatically, depending on the signal strength of a given transmitter; the system is similar to that of a diversity-reception system. There exist other methods of eliminating the interference between the neighbouring stations, such as providing the receiver with a number of directional antennae. However, these methods do not appear to be very successful. It seems that the best, or possibly, the only, way of eliminating

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interference and distortion is to ensure that the receiver accepts the signal from only one transmitter. A communication system based on this principle was developed and this was described in an earlier issue of this journal (No. 1, 1957, pp. 25 - 31). The system is based on automatic switching of the transmitters of the individual fixed stations, depending on the position of the mobile station. The switching of the fixed stations depends on the strength of the transmitted high-frequency field at the mobile receiver station. In this case, the dispatcher is able to select any mobile station in his sector. Conversely, the operator at the mobile station can call the dispatcher. Individual mobile stations can be called by a group of audiofrequency pulses, the calling frequency being 2 280 c.p.s., i.e. the fixed station which has the strongest carrier wave sends a blocking signal along the common modulating line to all the remaining fixed stations; the transmitters of all these stations are thus automatically switched off. As the mobile station recedes from the transmitter its signal, received by the fixed station, becomes weaker, whereas it increases at the neighbouring fixed station. When the signal reaches a

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The Use of

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predetermined value, the new transmitter is switched on and the preceding one is switched off. This procedure is repeated as long as the mobile station is in operation. When the mobile station calls the dispatcher, the mobile transmitter is switched on and the fixed stations receive its signal. The dispatcher then switches on the transmitters of all the fixed stations and the discrimination circuits of these stations determine the station which receives the strongest signal and block all the remaining stations. It is seen, therefore, that the fixed stations are simultaneously in operation only during the calling period and during the transmission of the blocking pulse. This system has been found very satisfactory in operation. There are 11 figures and 4 references: 1 Czech and 3 non-Czech.

ASSOCIATION: Tesla Hloubětíň, n.p. (State Establishment,
Tesla Hloubětíň)

SUBMITTED: July 10, 1960

Card 4/4

SUCHY, J.; ZATHURECKY, L.; SOMOSKHOV, G.; MOLNAR, L.; BAUEROVA, O.

Stability of cardenolides of the strophanthidin type in injection solutions. II. Study of the reaction-kinetics of the isomerization of strophanthidin by UV spectrophotometry. Cesk. farm. 12 no.2: 107-111 F '62.

1. CSAV, Chemicky ustav SAV, oddelenie farmakobiodynamiky, Bratislava.
(STROPHANTHIN) (SPECTROPHOTOMETRY) (CHEMISTRY)

TOMKO, Jozef, dr., inz., C.Sc.; SUCHY, Jan, inz.; BENDIK, Ivan, inz.

Alkaloids from the Veratrum album subsp. Lobelianum (Bernh.)
Suessenguth. Part 4: Selenium dehydrogenation of the veralkamine.
Chem zvesti 16 no.1/2:105-108 Ja-F '62.

1. Ceskoslovenska akademie ved, Oddelenie chemie alkaloidov,
Chemicky ustav Slovenskej akademie vied, Bratislava, Mlynske
nivy 37.

POLCIN, Jan, inz., C.Sc.; KOSIFOVA, Bozena, inz.; SUCHY, Jan, inz.,
C.Sc.; VASATKOVA, Miroslava, inz.

Examination of the alcohol extraction of lignin by means
of infrared spectrophotometry. Chem zvesti 16 no.7:562-573
Jl '62.

1. Ceskoslovenska akademie ved, Ustav dreva, celulozy a
chemickych vlastien Slovenskej akademie vied, Bratislava.
Authors' address: Bratislava, Dubravská cesta, Chemicky
ustav Slovenskej akademie vied.

24154
Z/043/61/000/001/001/001
D 222/D302

53750

AUTHORS :

Furdík, M., Toma, Š., Suchý, J., and Elecko, P.

TITLE :

Derivatives of ferrocene (II) and
derivatives based on diacetylferrocene - A method
for forming heteroannular rings

PERIODICAL : Chemické zvesti, no. 1, 1961, 45 - 62

TEXT : This paper is a continuation of the authors' studies on aldol condensation of monoacetylferrocene with aromatic aldehydes (Ref. 1: Chemické zvesti 14, 501 (1960)) and deals with the aldol condensation of diacetylferrocene with aromatic aldehydes and the influence exerted by the substituents and their position in the benzene nucleus of the aldehyde component. Special attention was paid to the question whether the second acetyl group condenses with another aldehyde molecule or causes intermolecular cyclization by the Michael addition on the double bond resulting from the aldol condensation of the first acetyl group. The diacetyl-

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Derivatives of ferrocene ...

ferrocene for the tests was prepared by Friedel-Crafts reaction of acetyl chloride with ferrocene under the catalytic influence of anhydrous aluminum chloride in CS₂. The aldol condensation was performed in methyl alcohol in which the reaction products were dissolved in a ratio of 1 mol ferrocene to 2 mol aldehyde catalyzed by diluted NaOH added at 40 - 50°C. Aldehydes used in the condensation were benzaldehyde, piperonal, o-chlorobenzaldehyde, o-, m-, and p-nitrobenzaldehyde, and furfural. The obtained condensation products could be crystallized with the exception of those obtained by condensation with o-nitrobenzaldehyde which had an oily character. In most cases with the exception of nitrobenzaldehydes, the color of the condensation products was considerably less intense than that of the corresponding product obtained by monoacetylferrocene condensation and that of the initial diacetylferrocene itself. From the distinctive change of the color, it could be derived that the ethylenic double bond, originating by condensation on the first

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D222/D302

Derivatives of ferrocene ...

acetyl group, was saturated during the reaction, which could be effected either by an intramolecular Michael addition of the second intact acetyl group, or by intramolecular addition of the acetyl group of another diacetylferrocene molecule (Reaction scheme 2). By analysis of reaction products, especially of their infrared spectra, it could be determined that the Michael addition takes place during formation of a heteroannular 8-membered ring (including the Fe atom). It was thus ascertained that the condensation of diacetylferrocene with benzaldehyde, piperonal, o-chlorobenzaldehyde, furfural (and partially also with m-nitrobenzaldehyde) yields cyclic 1,1'-(α,α' -diketo- β -phenylpentamethylene) ferrocene or its derivatives respectively. Different products obtained by condensation with nitrobenzaldehydes showed an increase in color intensity. This led to the conclusion that the molecule conjugation increased considerably and that the Michael addition did not take place. This assumption was fully confirmed by the results of elementary

X

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Z/043/61/000/001/001/001
D222/D302

Derivatives of ferrocene...

analysis and infrared spectra of obtained condensation products. The nitro group with its -I effect and -M effect paralyzed the influence of the carbonyl group, so that the neighboring ethylenic double bond was not sufficiently polarized to allow the Michael addition. The only reaction taking place was, therefore, aldol condensation and the originating products of the 1-acetyl-1'-cinnamoylferrocene type maintained their ethylenic double bond and their intact second acetyl group. The small amount of heteroannular rings originating with condensation with m-nitrobenzaldehyde can be attributed to the weaker electron-attracting effect of the m-nitro group. In conclusion the authors state that the tests listed in this paper prove that the aldol condensation of diacetylferrocene with benzaldehyde, piperonal, o-chlorobenzaldehyde, furfural, and partially also m-nitrobenzaldehyde is accompanied by the Michael addition which leads to the formation of heteroannular rings. This

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Derivatives of ferrocene ...

intermolecular Michael addition can be considered a new preparative method for heteroannular cyclic ferrocene derivatives. The authors give credit to M. Pavlovičová of the Laboratórium fyzikálnej chémie Oddelenia chémie prírodných látok Chemického ústavu SAV v Bratislave (Laboratory of Physical Chemistry, Department for Chemistry of Natural Products, Chemical Institute of the Slovak AS in Bratislava); Engineer C. Peciarov, Engineer K. Linekov and collaborators of the analytický laboratórium, Oddelenia chémie prírodných látok Chemického ústavu SAV v Bratislave (Analytical Laboratory, Department for Chemistry of Natural Products, Chemical Institute of the Slovak AS in Bratislava); and J. Krskov of the analytický oddelenia Výzkumného ústavu agrochemickej technologie v Bratislave (Analytical Department of the Research Institute for Agrochemical Technology in Bratislava). There are 15 figures, 2 tables and 6 references:
1 Sovietbloc, 5 non-Soviet-bloc. The references to English-

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24648
z/043/61/000/008/001/001
D213/D303

53700

AUTHORS:

Furdík, Mikuláš, Professor, Engineer; Toma, Štefan,
Chemist and Suchý, Ján, Engineer

TITLE:

Ferrocene derivatives (III). Fulvene on the basis of
monoacetyl - and diacetyl ferrocene

PERIODICAL: Chemické zvesti, no. 8, 1961, 547-553

TEXT: This article is a continuation of previous work by the authors (Ref. 1: M. Furdík, P. Elečko, S. Toma, J. Suchý, Chem. zvesti 14, 501, (1960)) and (Ref. 2: M. Furdík, S. Toma, J. Suchý, P. Elečko, Chem. zvesti 15, 45, (1961)), and describes the production of fulvene on the basis of monoacetyl ferrocene and 1.1' diacetyl ferrocene as passive components of the reaction. Choosing the conditions for the reaction, both fulvenes, the α -cyclopentadienylidenethylferrocene and the 1.1'-bis(α -cyclopentadienylidenethyl) - ferrocene were produced. To identify them infra-red absorption spectra were used. The appearance (coloring) of the two crystals was very similar, though the bis-derivative was the lighter; the

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Ferrocene derivatives (III)...

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420 - 650 m μ was done with a Zeiss universal spectrophotometer, using ethylalcohol solution concentration $5 \cdot 10^{-4}$ M/l. There are 4 figures and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: P.L. Pauson, Am. Chem. Soc. 76, 2187 (1954)

ASSOCIATION: Katedra organickéj chémie a biochémie PFUK (Chair of Organic Chemistry and Biochemistry, Philosophical Faculty, Komensky University)

SUBMITTED: March 19, 1961

Card 3/4

FURDIK, Mikulas, prof., inz.; TOMA, Stefan, promovany chemik; SUCHY, Jan, inz.,
C.Sc.

On ferrocene drivates. Part 4: Derivates on the basis of the 1,1'-
-diacetylferrocenes; contribution to the examination of structure
of heteroannular cycles. Chem zvesti 15 no.11/12:789-806 N-D '61.

1. Katedra organickej chemie a biochemie Prirodovedeckej fakulty
University Komenskeho, Bratislava (for Furdik and Toma) 2. Odde-
lenie chemie prirodnych lakov Chemickeho ustavu Slovenskej akademie
vied, Bratislava (for Suchy). Authors' addresses: Bratislava,
Smeralova 2 (for Furdik and Toma); Bratislava, Mlynske nivy 37,
Chemicky ustav Slovenskej akademie vied (for Suchy).

MOKRY, Jozef, inz., C.Sc.; KOMPIS, Ivan, inz.; SUCHY, Jan, inz.;
SEFCOVIC, Pavel, dr., inz., C.Sc.; VOTICKY, Zdeno, dr., inz.,
C.Sc.

Contribution to the study of vincamine constitution. Chem
zvesti 16 no.1/2:140-150 Ja-F '62.

1. Ceskoslovenska akademie ved, Oddelenie chemie alkaloidov
Chemickeho ustavu Slovenskej akademie vied, Bratislava.
Authors' address: Bratislava, Mlynske nivy 37, Chemicky ustav
Slovenskej akademie vied.

FURDIK, Mikulas, prof., inz. (Bratislava, Smeralova 2); TOMA, Stefan
(Bratislava, Smeralova 2); SUCHY, Jan, inz., C.Sc. (Bratislava,
Mlynske nivy 37)

Ferrocene derivatives (5). Aldol condensation of 1,1'-
diacetylferrocene with aliphatic aldehydes. Chem zvesti 16
no.6:449-457 Je '62.

1. Katedra organickej chemie a biochemie Prirodovedeckej
fakulty Univerzity Komenskeho, Bratislava (for Furdik and
Toma). 2. Ceskoslovenska akademie ved, Chemicky ustav
Slovenskej akademie vied, Bratislava (for Suchy).

SUCHY, Jan, inz.; VASATKOVA, Miloslava, inz.

Spectrophotometry in a near infrared area on the apparatus
UR 10 Zeiss. Chem zvesti 16 no.6:486-490 Je '62.

1. Ceskoslovenska akademie ved, Oddelenie fyzikalnej a
analytickej chemie, Chemicky ustav Slovenskej akademie
vied; Ustav dreva, celuslozy a chemickych vlakien, Slavenska
akademia vied, Bratislava. Adresa autorov: Bratislava,
Mlynske nivy 37, Chemicky ustav, Slovenska akademie vied.

FURDIK, Mikulas, prof., inz.; TOMA, Stefan, promovany chemik; DZURILLA, Milan, promovany chemik; SUCHY, Jan, inz., C.Sc.

Ferrocene derivates. Part 7 : Diels-Alder reaction of the ferrocenyl fulvene and its derivates with N-substituted maleic acid imides. Chem zvesti 16 no.10:719-740 O '62.

1. Katedra organickej chemie a biochemie, Prirodovedecka fakulta Univerzity Komenskeho, Bratislava, Smeralova 2 (for Furdik, Toma and Dzurilla). 2. Oddelenie chemie prirodnych lakov, Chemicky ustav, Slovenska akademia vied, Bratislava, Mlynske nivy 37 (for Suchy).

Z/043/63/000/001/004
D287/D307

AUTHORS: Furdik, M., Toma, S. and Suchy, J.

TITLE: Ferrocene derivatives. VIII. Diels-Alder reaction of
N-ferrocene maleinimide with dienes

PERIODICAL: Chemické Zvesti, no. 1, 1963, 21-29

TEXT: The present work is a continuation of an earlier investigation by the authors with the difference that they investigated the effect of the ferrocenyl group on the endo-exo isomerism of the dienophile-diene adducts. N-ferrocene-maleinimide was used as the dienophile, and was reacted with cyclopentadiene, dimethyl fulvene, ferrocenyl fulvene, α -cyclopentadienylidene ferrocene, furan and α -methylfuran. The Diels-Alder reactions were carried out in acetone under reflux, using equimolar quantities (10% excess for very volatile dienes). Only 1 isomer was separated in each case, i. e. the endo-isomer of the bicyclic adduct. The 1110 cm^{-1} band assigned to mono-derivatives of ferrocene, and the $800 - 900\text{ cm}^{-1}$ bands of

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Ferrocene derivatives ...

the aromatic nucleus could be observed in all spectra. The C=O group of the maleimide appears as a strong band at 1710 to 1720 cm^{-1} and as a weaker band shifted by approximately 60 cm^{-1} towards the higher wavelengths. The intensity of this band is weak in N-ferrocenyl maleimide, increases in cyclopentadiene and furan adducts and is considerably increased in derivatives of these adducts. The absorption maximum in the 615 - 645 cm^{-1} region in the ir spectra of the adducts confirms the endo-isomers are formed. The listed bicyclic adducts formed have not hitherto been described in literature; they include: N-ferrocenylbicyclo-1,2,2-heptene-5,2,3-dicarboximide, N-ferrocenyl-7-dimethylmethylene bicyclo-1,2,2-heptene-5-2,3-dicarboximide, N-ferrocenyl-1,4-endoxo-cyclohexene-5-2,3-dicarboximide, N-ferrocenyl-1-methyl-1,4-endoxo-cyclohexene-5-2,3-dicarboximide, N-ferrocenyl-7-methyl-ferrocenylmethylene-bicyclo-1,2,2-heptene-5-2,3-dicarboximide. The ir spectra were measured with KBr pellets on an UR 10 Zeiss ir spectrophotometer. There are 4 figures and 1 table.

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Ferrocene derivatives ...

Z/043/63/000/001/001/004
D287/D307

ASSOCIATION: Labratorium chemie Prirodovedeckej fakulty Univer-
zity Komenského, Bratislava, ČSAV, Chemický ústav
Slovenskej akadémie vied, Fyzikalno-chemicke oddele-
nie, Bratislava (Chemical Laboratory of the Depart-
ment of Natural Sciences of the Komensky University,
Bratislava, Czechoslovak AS, Institute of Chemistry
of the Slovak Academy of Sciences, Department of
Physical Chemistra, Bratislava)

SUBMITTED: July 13, 1962

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45196
Z/043/63/000/001/003/004
D287/D307

AUTHORS: Mokrý, J., Kompiš, I., Suchý, J., Šefčovič, P. and Votický, Z.

TITLE: Alkaloids from Vinca minor L. V. The structure of vincamine

PERIODICAL: Chemické Zvesti, v. 17, no. 1, 1963, 41-53

TEXT: E. Schlitter and A. Furlenmeier separated vincamine, the main constituent of Vinca minor L. for the first time. The authors modified the method described by S. Scheindlin and N. Rubin for separating the crude alkaloid from the plant and obtained a new alkaloid, vincarein, from the crystalline fraction of the crude alkaloid solution (vincarein: $C_{21}H_{24}N_2O_4$). This compound has the same physical and chemical properties as vincaminine and the authors suggest that the two compounds are identical. The separation of vincamine ($C_{21}H_{26}N_2O_3$) was described in an earlier publication (Chem.

Zvesti, v. 16, 1962, 140); vincaminol $C_{20}H_{26}N_2O_2$ was obtained by

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Alkaloids from Vinca ...

reduction of vincamine with LiAlH_4 . Dehydrogenation with Se gave vincyrine and isovincyrine ($\text{C}_{19}\text{H}_{22}\text{N}_2$). The structure of vincamine was proved by oxidation of vincaminol: vincamone and formaldehyde were obtained and it was therefore obvious that the compound was a 1,2-diol and that the -OH and $-\text{COOCH}_3$ groups in vincamine are on the same C-atom (C_{14}). The formula of vincamone, the uv and ir spectra and the m.p. of the compound are identical with those of eburnamonine. Apovincamine (obtained by dehydration of vincamine) can be subjected to catalytic hydrogenation and esterification and yields desoxyvincamine $\text{C}_{21}\text{H}_{26}\text{N}_2\text{O}_2$ which has an equatorial carbmethoxy group; the same position of the carbmethoxy group and configuration are assumed to exist in vincamine. There are 2 figures.

ASSOCIATION: CSAV, Chemicky ústav Slovenskej akadémie vied, Odde-
lenie chémie alkaloidov, Bratislava (Czechoslovak AS,
Institute of Chemistry of the Slovak Academy of

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Alkaloids from Vinca ...

Z/043/63/000/001/003/004
D287/D307

Sciences, Department of Alkaloid Chemistry, Bratis-
lava)

SUBMITTED: June 6, 1962

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